Amphibian and Bird Indicators for Great Lakes Wetlands: the Marsh Monitoring Program

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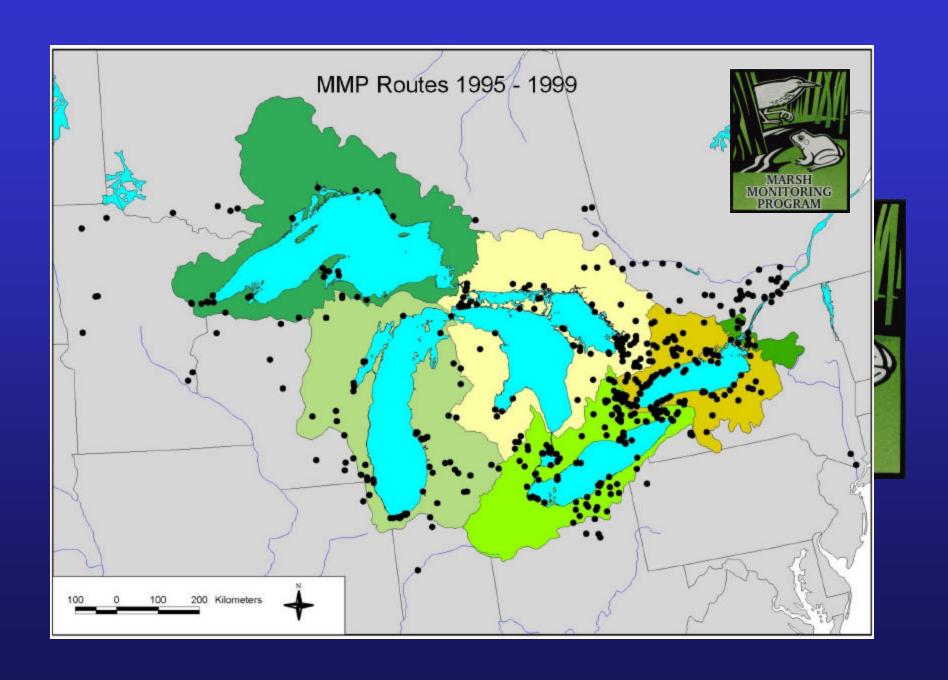
Great Lakes Wetlands

Fantastian And Storation

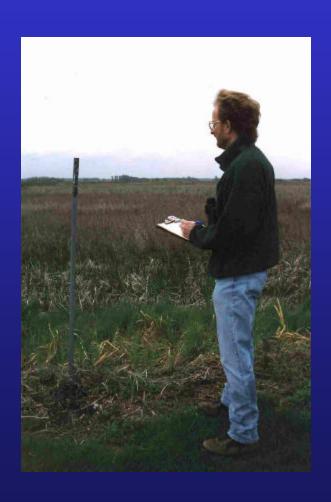


Vision

Great Lakes marshes of sufficient quality and quantity to support diverse breeding populations of amphibians and birds.



Partnerships













Objectives

1) Monitor breeding amphibians and birds



2) Assess habitat relationships



3) Help assess management & restoration



4) Engage and motivate stakeholders



Amphibian Indicator



- Wetlanddependent
- Sensitive eggs & skin
- Sedentary
- Wide distribution
- Public interest

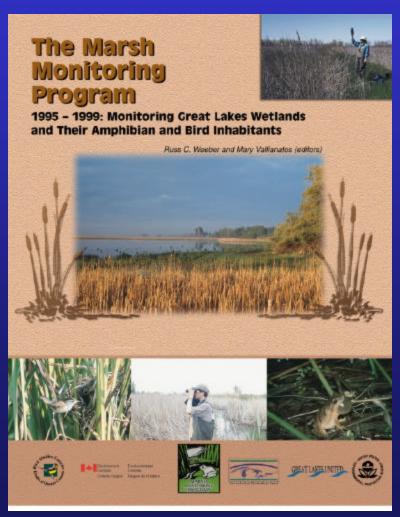
Bird Indicator



- Wetlanddependent
- Wide distribution
- Easy to count
- Public interest

Reporting

- Basin-wide
- Lake level
- Biodiversity Investment Areas
- Areas of Concern
- Wildlife Management Areas
- Program participants



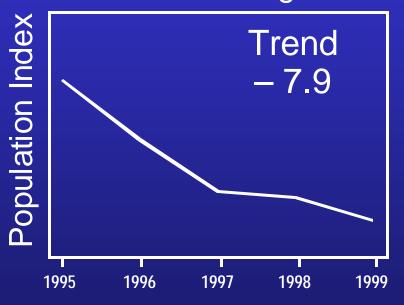
MMP Routes

- Permanent wetlands
- Large wetlands
- Cattail and grasses/sedges
- Route coverage
 - strongest in Erie and Ontario
 - weakest in Superior

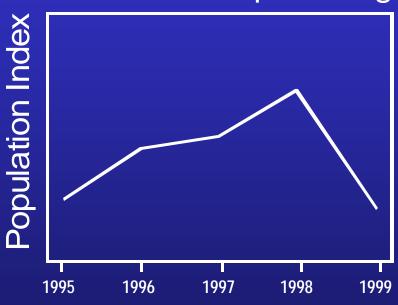


Is the presence of each species changing through time?

Chorus Frog



Northern Leopard Frog



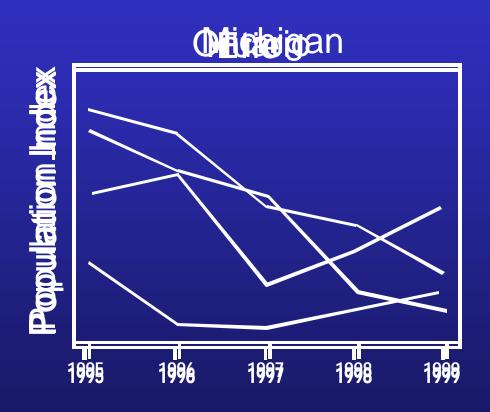


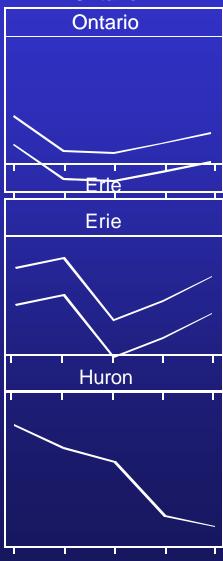


Do trends vary among lake basins?



Chorus Frog

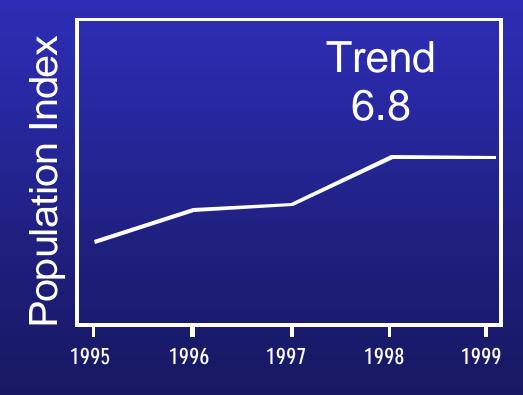




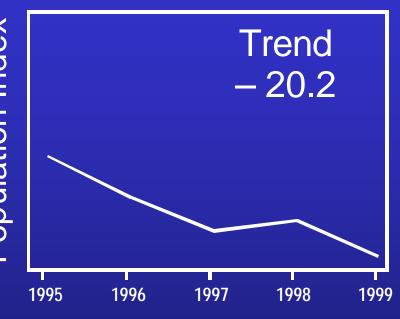
Are the numbers of individuals changing through time?

Common Yellowthroat



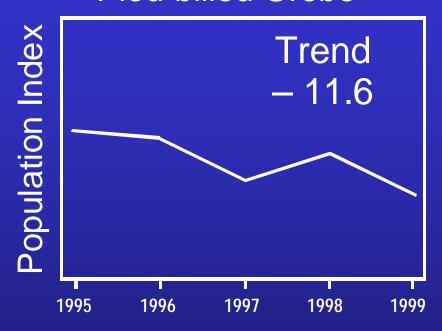


Population Index



Black Tern

Pied-billed Grebe







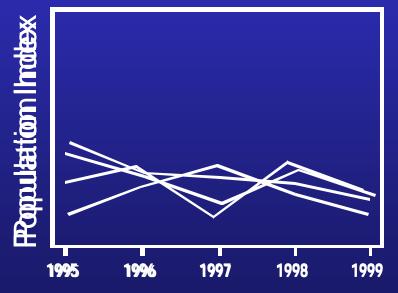
Do trends vary among lake

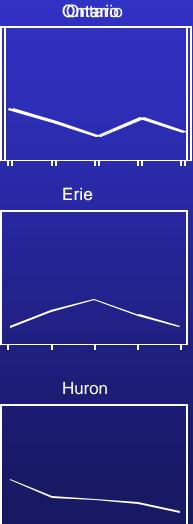
basins?



Pied-billed Grebe







Habitat Relationships



Enhancement

- Endpoints for Success
- Indices >> Populations
- Participant Recruitment
 - & Retention
- Data Sharing & Reporting



